			Phases				2nd	3rd	Environmental Management
Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	
Assess.	Studies	Design	Cap. Const.	О&М	SLMT	Prog. Mgmt/ Infra.			ENVIRONMENTAL COST ELEMENT STRUCTURE
		3	4				.03	.20	Environmental Action Implementation Plan
	2	3	4	5			.02	.07	A/E Support
			4	5	6		.13	.05	Aboveground Vault
			4	5	6		.05	.11	Access Control Facility
			4	5	6		.05	.40	Access Control Facility
1	2	3	4	5	6		.05	.08	Access Roads
			4	5			.24	.16	Activated Alumina (Adsorption/Absorption)
			4	5			.22	.01	Activated Sludge
			4	5			.26	.02	Advanced Electrical Reactor
			4	5			.26	.01	Aeration
			4	5			.26	.03	Agglomeration
1	2	3	4	5	6		.07	.08	Air Monitoring and Sampling
			4	5			.25	.02	Air Sparging
			4	5			.26	.04	Air Stripping
1	2	3	4	5	6		.08	.01	Air/Gas Sample Analysis
-			4	5			.34	.11	Alkali Bed Reactor
			4	5			.22	.11	Anaerobic Sludge Digestion
			4	5	6		.17	.13	Aquatic Barrier
1	2	3	4	5	6		.05	.09	Arterial Roads/Divided Highways
			4				.15	.04	Asbestos Abatement
			4	5	6		.19	.06	Asphalt/Concrete Layer
			4	5			.30	.01	Asphalt-Base Encapsulation
			4	5			.29	.01	Asphalt-Based Encapsulation
1	2	3	4	5	6		.02	.12	Asset Recovery
			4	5			.21	.10	Baroball
-			4	5			.24	.02	Base-Catalyzed Decomposition Process
-	2	3					.10	.05	Bench Test
	-	2	4	5	6		.17	.02	Berms
1	2	3	4	5	6		.08	.10	Bioaccumulation Studies
1	2	3	4	5	6		.08	.09	Bioassay Sample Analysis
			4	5			.34	.01	Biofiltration
-			4	5			.21	.01	Biological Barriers
			4	5			.22	.10	Biological Lagoons
			4	5			.22	.03	Biopile (Bioheap, Biomound)
			4	5			.25	.21	Bioslurping
1	2	3	4	5	6		.08	.08	Biota Sample Analysis
-			4	5			.21	.03	Bioventing
			4	5			.25	.19	Blast Enhanced Fracturing
-			4				.14	.03	Blast Mats
			4	_			.14	.04	Blast Shields
-	_	2	4	5	6		.13	.17	Bore - Hole Disposal
1	2	3	4	-	-		.05	.07	Borrow Pit/Haul Roads
1	2	3	4	5	6		.05	.13	Bridges
-			4				.14	.02	Brush Clearing with OE
-			4				.14	.13	Bunkers (Temporary)
-			4	5			.30	.02	Calcination
-	2	2	4	5			.34	.05	Catalytic Oxidation
1	2	3	4	5			.32	.10	Certification & Shipping
			4	5	6		.17	.06	Channels/Waterways/Ditches
-	_	2	4	5			.26	.05	Chemical Data Application Plan
1	2	3	4	5	6		.03	.02	Chemical Data Acquisition Plan

2 04/02

			Phases				2nd	3rd	Environmental Management
Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	
Assess.	Studies	Design	Cap. Const.	О&М	SLMT	Prog. Mgmt/ Infra.			ENVIRONMENTAL COST ELEMENT STRUCTURE
			4	5			.24	.18	Chemical Extraction (Solvent/Acid/Alkaline Extraction)
			4	5			.24	.03	Chemical Hydrolysis
			4	5			.24	.08	Chemical Oxidation / Reduction
			4	5			.24	.04	Chlorination
			4	5	6		.17	.07	Chutes or Flumes
1	2	3	4	5	6		.05	.52	Clean Site Work
1	2	3	4	5	6		.05	.02	Cleanup/Landscaping/Revegetation
1	2	3	4				.05	.03	Clear and Grub
			4	5			.24	.15	Coagulation / Flocculation / Precipitation
			4	5	6		.25	.15	Coating
1	2	3	4	5	6		.09	.12	Combined Data Management
	2						.04	.18	Combined Feasibility Document
1	2	3	4	5	6		.04	.15	Combined Report
1	2	3	4	5	6		.09	.11	Combined Sample Management
1	2	3	4	5	6		.03	.17	Combined Workplan
			4	5			.21	.04	Cometabolic Treatment
			4	5			.22	.04	Cometabolic Treatment
1	2	3	4	5	6		.05	.29	Communications
1	2	3	4	5	6		.02	.02	Community Relations
1	2	3	4	5	6		.03	.07	Community Relations Plan
			4	5			.26	.07	Compaction/Volume Reduction
			4	5			.22	.12	Composting
1	2	3	4	5	6		.05	.35	Compressed Air/Nitrogen
1	2	3	4	5	6		.05	.53	Concrete
			4	5			.34	.13	Condensation
1	2	3	4	5	6	8	.02	.13	Configuration Management
			4	5	6		.13	.10	Confined Disposal Facilities (CDFs)
			4	5			.21	.05	Constructed Wetlands
			4	5	6		.12	.05	Contact Handled Storage
1	2	3	4	5			.32	.15	Container Handling
1	2	3	4	5	6		.07	.14	Contaminated Building Survey/Structures/Equipment Samples
			4	5			.19	.01	Contaminated Soil Collection (Excavation)
1	2	3	4	5	6		.02	.15	Contract Closeout
	2	3	4				.02	.08	Contractor Construction Management
			4	5	6		.12	.02	Conventional Storage/Warehouses
1	2	3	4	5	6		.05	.64	Conveying Systems
1	2	3	4	5	6		.09	.02	Coordinate with Sample MGT Personnel/Regulators
1	2	3	4	5	6	8	.03	.22	Corrective Action Plan Reporting
			4	5			.11	.01	Covered Treatment Train Technologies Unit
			4	5			.26	.42	Cryogenics
			4	5			.25	.04	Cryogenics (Frozen Soil Barrier)
	2	3					.10	.02	Data Collection
1	2	3	4	5			.03	.06	Data Management Plan
1	2	3	4	5	6		.09	.08	Data Reduction, Tabulation and Evaluation
	•	-	4	5			.09	.13	Data Review for Effectiveness
1	2	3	4	5	6		.09	.07	Data Usability Evaluation/Field QA/QC
		-	4	5	~		.31	.02	Deactivation
			4	5			.26	.09	Decant/Phase Separation
1	2	3					.03	.15	Decommissioning Plan
1		3	4				.04	.12	Decontamination/Dismantlement Project Designs
		٥	4	5	6		.13	.15	Deep Well Injection
			-	J	J		.13	.13	Deep wen injection

3 04/02

			Phases				2nd	3rd	Environmental Management
Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	
Assess.	Studies	Design	Cap. Const.	О&М	SLMT	Prog. Mgmt/ Infra.			ENVIRONMENTAL COST ELEMENT STRUCTURE
			4	5			.24	.05	Dehalogenation
1	2	3	4	5	6		.05	.36	Demobilization
			4				.14	.01	Demolition for OE Removal
1	2	3	4	5	6		.09	.05	Derived Waste Disposal (Gas, Liquid, Solid)
	2	3					.10	.09	Design, Procure, Test New Procedures/Specifications
	2	3					.10	.04	Design/Procure New Tools and Equipment
	2						.04	.06	Develop Environmental Alternatives
	2	3					.10	.03	Develop Treatability Workplan
			4	5	6		.05	.10	Diesel Generator
			4	5	6		.05	.39	Diesel Generator
			4	_			.25	.20	Directional Wells (Enhancement)
	2	2	4	5			.33	.09	Discharge to POTW
1	2	3	4	5			.05	.04	Dismantling and Demolition
			4	5			.31	.12	Dismantling and Removal of Biological and Thermal Shield
			4	5			.31	.09	Dismantling and Removal of Contaminated Equipment /Material
			4	5			.31	.11	Dismantling and Removal of Primary and Auxiliary Systems
			4	5			.31	.14	Dismantling of In-Cell Equipment
			4	5			.31	.19	Dismantling of Intermediate Fuel Storage Facility
			4	5			.31	.18	Dismantling of Temporary Fuel Storage Facility
			4	5			.31	.10	Dismantling Operations on Reactor Vessel & Internals
			4	5			.31	.21	Dismantling or Demolition of Other Facilities
			4	5	6		.13	.03	Disposal Facility Front-End - High/Remote Hazard
			4	5	6		.13	.02	Disposal Facility Front-End - Low/Moderate Hazard
			4	5	6		.13	.18	Disposal Fees and Taxes
			4	5			.26	.10	Dissolved Air Floatation Distillation
1	2	3	4	5	6		.09	.11	Document Data Evaluation
1	2	3	4	3	U		.04	.10	Document FS (CMS)
	2	3					.10	.11	Document Treatability Study
1	2	3	4	5	6		.05	.58	Doors and Windows
1		3	4	5	0		.03	.23	Draw-Down Pumping
			4	5	6		.17	.01	Dredging/Excavating
			4		U		.15	.01	Drum Removal
			4	5			.25	.22	Dual Phase Extraction (Multi-Phase)
			4	5			.26	.12	E-Beam
1	2	3	4	5	6		.07	.07	Ecological Investigation
1	2				,		.04	.03	Ecological Risk Assessment
1	2	3	4	5	6		.07	.12	Ecological Sampling
1	2	3	4	5	6		.05	.66	Electrical
	_	-	4	5			.26	.13	Electrochemical Oxidation
			4	5			.25	.16	Electrokinetics
			4	5			.26	.15	Electrolysis
1	2	3	4				.03	.13	Emergency Response Plans/Report/Approval
		,	4	5			.30	.10	Emulsified Asphalt
1	2						.02	.11	Enforcement Enforcement
	_		4	5	6		.19	.08	Engineered Barrier
			4	5	6		.13	.11	Engineered Disposal
	2	3		-	-		.04	.16	Engineering Evaluation/Cost Analysis
			4	5			.21	.06	Enhanced Bioremediation
1	2						.04	.05	Environmental Investigation Report
	-				l				··· O··· · · · · · · · · · · · · · · ·

-4 04/02

			Phases				2nd	3rd	Environmental Management
Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	· ·
Assess.	Studies	Design	Cap. Const.	О&М	SLMT	Prog. Mgmt/ Infra.			ENVIRONMENTAL COST ELEMENT STRUCTURE
			4	5			.11	.10	Environmental Management High Hazard Functional Area (e.g., ALLW, MALLW, TRU, Spent Fuel, & CWM)
			4	5			.11	.07	Environmental Management High Hazard/Remote Treatment Front-End
			4	5			.11	.08	Environmental Management Low Hazard Functional Area (e.g., Hazardous/Toxic)
			4	5			.11	.06	Environmental Management Low/Moderate Hazard Treatment Front-End
			4	5			.11	.09	Environmental Management Moderate Hazard Functional Area (e.g., Hazardous/Toxic, LLW & MLLW)
		3	4				.04	.11	Environmental Management Project Design
			4	5			.11	.11	Environmental Management Remote Functional Area (e.g., ALLW, MALLW, TRU, Spent Fuel, & CWM)
1	2	3	4				.03	.14	Environmental Workplans
			4	5			.26	.16	Equalization
1	2	3	4	5	6		.05	.61	Equipment
			4	5	6		.17	.12	Erosion Control
-	2						.04	.08	Evaluate Alternatives
			4	5			.26	.17	Evaporation
			4				.14	.08	Excavate by Hand 0' - 2' Depth
	2	2	4				.14	.09	Excavate with Heavy Equipment > 2' Depth
1	2	3	4	_			.05	.05	Excavation and Earthwork
-			4	5	6		.18	.01	Extraction Wells
-			4	5			.12	.08	Facilities and Sheds for Temporary Storage
			4	3			.11	.13	Facility (Controlled Area) Hardening, Isolation or Entombment Facility Commissioning Activities
		3	4				.04	.13	Facility Design
1	2	3	4	5	6	8	.06	.01	Facility Transition
1	2	3	4	5	6	0	.05	.14	Fencing
	2	3			U		.10	.07	Field Test
	-		4	5			.26	.19	Filter Presses
1	2	3	4	5	6		.05	.59	Finishes
			4	5			.34	.12	Flameless Thermal Oxidation
			4	5			.34	.14	Flaring
			4	5	6		.17	.03	Floodwalls
			4	5			.24	.17	Forager Sponge (Adsorption/Absorption)
			4	5			.25	.05	Fracturing (Hydrofracturing)
			4	5			.25	.18	Fracturing (Pneumatic)
			4	5			.26	.21	Freeze Crystallization
1	2	3	4	5	6		.05	.21	Fuel Line Distribution
1	2	3	4	5	6		.05	.22	Fuel Storage Tanks
			4	5	6		.16	.04	Fugitive Dust/Vapor/Gas Emission Control
			4	5			.11	.05	Full-Scale Environmental Management Plant/Facility
			4	5			.22	.13	Fungal Biodegredation (White Rot Fungus)
1	2	3	4	5	6		.05	.62	Furnishings
1	2	3	4	5	6		.05	.20	Gas Distribution
1	2	3	4	5	6		.08	.05	Gas Waste Sample Analysis
			4	5	6		.16	.03	Gas/Vapor Collection at Lagoon Cover
			4	5	6		.16	.01	Gas/Vapor Collection Trench System
			4	5	6		.16	.02	Gas/Vapor Collection Well System
1	2	3	4	5	6		.05	.51	General Requirements
			4	5			.22	.05	Genetically Engineered Organism
			4	5	6		.13	.13	Geologic Disposal

A-5 04/02

			Phases				2nd	3rd	Environmental Management
Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	
Assess.	Studies	Design	Cap. Const.	О&М		Prog. Mgmt/ Infra.			ENVIRONMENTAL COST ELEMENT STRUCTURE
1	2	3	4	5	6		.07	.06	Geophysical/Geotechnical Investigation
			4	5			.24	.01	Glycolate/ Alkali Metal/Polyethylene Glycol (A/PEG)
						8	.01	.04	Government - Personnel Resources
						8	.01	.06	Government - Program Infrastructure
						8	.01	.05	Government - Program Support
	2	3	4				.02	.09	Government Construction Management
			4	5			.34	.10	Granular Activated Carbon Adsorption Gas/Vapor
			4	5			.26	.23	Granular Activated Carbon Adsorption- Liquid
			4	5			.26	.41	Gravity Separation
1	2	3	4	5	6		.08	.02	Groundwater Sample Analysis
1	2	3	4	5	6		.07	.09	Groundwater Sampling/Monitoring
			4	5	6		.18	.05	Grout Curtain
			4	5			.29	.02	Grout Injection
1	2						.04	.01	Hazardous, Toxic, and Radioactivity Ranking System (HRS)
1	2	3	4	5		8	.03	.04	Health and Safety Plan
1	2	3	4	5	6		.05	.23	Heating/Cooling Distribution System
			4	5			.26	.24	Heavy Media Separation
			4	5			.34	.02	High Energy Corona
			4	5			.26	.25	High Pressure Aqueous Destruction
			4	5			.27	.05	High Temperature Thermal Desorption
			4	5			.28	.01	High Temperature Thermal Desorption
1	2	3	4	5	6		.07	.17	Historical/Cultural/Archeological Investigation
			4	5			.31	.04	Hot Cell Equipment Modification
			4	5			.28	.15	Hot Gas Decontamination
1	2						.04	.02	Human Health Risk Assessment
			4	5			.24	.06	Hydrogen reduction
1	2	3	4	5	6		.07	.04	Hydrogeological Investigations - Groundwater
1	2	3	4	5	6		.07	.05	Hydrogeological Investigations - Surface Water
1	2	3	4	5	6		.09	.03	Implement EPA-Approved Laboratory QA Program
1	2	3	4	5			.03	.12	Implementation Plans
			4	5	6		.05	.43	Important to Safety Switch Gear Building
			4	5	-		.29	.05	In Situ Pipe Grouting
			4	5			.29	.04	In Situ Vitrification
			4	5			.28	.02	Incineration
			4	5	6		.02	.10	Independent Contractor Verification of Cleanup or Reuse
1	2	3	4	5	6	8	.06	.03	Indoor Surveillance and Maintenance
-			4	5		J	.20	.01	Industrial Vacuuming
1	2	3	4	5	6		.02	.18	Information Management
1		3	4	5	6		.18	.02	Injection Wells
1	2	3	4	5	6	8	.02	.04	Institutional Controls
-	-		4	5	6	U	.13	.12	Intermediate Depth Disposal (Burial Ground/Trench/Pits)
			4	5	U		.13	.09	Internal Combustion Engine
			4	5			.25	.09	In-Well Air Stripping/Circulating Wells
			4	5			.23	.07	In-wen Air Surpping/Circulating wens Ion Exchange
			4	5	6		.17	.10	Lagoons/Basins/Tanks
			4	5	U		.17	.06	Land Farming
							.22		Land Treatment
			4	5	6			.07	
				5	6		.13	.04	Landfill Landfill Can Enhancements
			4	5	6		.19	.07	Landfill Cap Enhancements
			4	5			.25	.06	Lasagna Process
			4	5			.25	.07	Laser (Cutting)

-6 04/02

			Phases				2nd	3rd	Environmental Management
Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	
Assess.	Studies	Design	Cap. Const.	О&М	SLMT	Prog. Mgmt/ Infra.			ENVIRONMENTAL COST ELEMENT STRUCTURE
			4	5			.25	.08	Laser (Surface Decontamination)
			4	5	6		.17	.04	Levees/Dams/Dike
1	2	3	4	5	6		.05	.30	Lighting
			4	5			.26	.26	Lignin Adsorption / Sorptive Clays
1	2	3	4	5	6		.08	.06	Liquid Material/Waste Sampling
	2	3					.10	.01	Literature Search
1	2	3	4	5	6		.02	.19	Litigation Support
1	2	3	4	5			.05	.06	Load and Haul
			4	5			.27	.07	Low Temperature Thermal Desorption
			4	5			.28	.03	Low Temperature Thermal Desorption
			4	5			.26	.27	Magnetic Separation
1	2	3	4	5		8	.03	.09	Management Plan
1	2	3	4	5	6		.05	.54	Masonry
			4	5	6		.03	.23	Material Disposition Plan
1	2	3	4	5	6		.07	.13	Material/Waste Sampling
1	2	3	4	5	6		.05	.65	Mechanical
			4	5			.26	.20	Media Filtration
			4	5			.26	.45	Membrane Pervaporation
			4	5			.34	.04	Membrane Separation
			4	5			.26	.28	Membrane Separation-Electrodialysis
1	2	3	4	5	6		.05	.55	Metals
1	2	3	4	5	6		.07	.02	Meteorological Monitoring
			4	5	6		.12	.07	Mixed Waste Storage
1	2	3	4	5	6		.08	.11	Mobile - Air/Gas Sample Analysis
1	2	3	4	5	6		.08	.18	Mobile - Biota Sample Analysis
1	2	3	4	5	6		.08	.15	Mobile - Gas Waste Sample Analysis
1	2	3	4	5	6		.08	.12	Mobile - Groundwater Sample Analysis
1	2	3	4	5	6		.08	.16	Mobile - Liquid Waste Sample Analysis
1	2	3	4	5	6		.08	.14	Mobile - Soil/Sediment Sample Analysis
1	2	3	4	5	6		.08	.17	Mobile - Solid Waste Sample Analysis
1	2	3	4	5	6		.08	.13	Mobile - Surface Water Sample Analysis
1	2	3	4	5	6		.05	.01	Mobilization
1	2	3	4	5	6		.09	.09	Modeling
			4	5			.30	.08	Modified Sulfur Cement
			4	5			.28	.14	Molten Metal
	_	_	4	5			.28	.04	Molten Salt Oxidation
1	2	3	4	5	6		.07	.15	Monitoring Well
			4	5			.26	.43	Nanofiltration
			4		6		.21	.08	Natural attenuation
			4	5			.23	.03	Neutralization
			4	5			.24	.12	Neutralization
			4	5			.31	.01	Nuclear Facility Shutdown and Inspection
1	2	3	4	5			.32	.03	OE Off-Site Destruction Transportation to DOD Facility
			4				.14	.12	OE On-Site Destruction
1	2	3	4	5	6		.33	.08	Off-Site Commercial Disposal Costs, Fees, and Taxes
1	2	3	4	5	6		.33	.06	Off-site DOE Disposal Costs, Fees, and Taxes
1	2	3	4	5	6		.33	.07	Off-Site Other Government Disposal Costs, Fees, and Taxes
			4	5			.26	.30	Oil / Water Separation
1	2	3	4	5	6		.33	.05	On-site Commercial Disposal Costs, Fees, and Taxes
1	2	3	4	5	6		.33	.04	On-site DOE Disposal Costs, Fees, and Taxes
			4	5			.28	.05	Open Burn/Open Detonation

-7 04/02

Phi Phi				Phases				2nd	3rd	Environmental Management
1	Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	
1										
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	1	2	3	4		6				
1										**
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1										
1	1	2	3			6				
2 3 4 5	1	2	3	4	5	6				
2 3 4 1.15 1.05 Pilot-Scale Test							8			
				4	5					•
1		2	3							
1 2 3 4 5 6 .0.3 .0.5 Pollution Control and Mitigation Plan										
		2	-							
1	1	2	3			6				
1										· · ·
3		2	2				0			
	1	2			5	6	8			
			3		_					
					5	6				
1										,
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2 3 4 5 .02 .06 Procurement and Warehousing of Equipment and Material Product Qualification, Characterization, and Certification Program Infrastructure Program Infrastructure Program Support Project Management/Support/Administration Program Support Project Management/Support/Administration Program Support Project Management/Support/Administration Project Management/Support/Administration Project Management/Support/Administration Project Management/Support/Administration Project Management Project Safety and Health Project Management Project Safety and Health Project Management Project Safety and Health Project Safe	1	2	2							
2 3	1					0				
8 .01 .03 Program Infrastructure 8 .01 .02 Program Support 1 2 3 4 5 6 .02 .01 Project Management/Support/Administration 1 2 3 4 5 6 .02 .14 Project Safety and Health 1 2 3 4 5 6 .03 .18 Proposed Plan 1 2 3 4 5 6 .09 .04 Provide Sample Management 1 2 3 4 5 6 .17 .11 Pumping/Draining/Collection 1 4 5 6 .17 .11 Pumping/Draining/Collection 1 4 5 .20 .03 Pumping/Draining/Collection 1 4 5 .28 .07 Pyrolysis 1 4 5 .20 .02 Radioactive Specific Waste Containment 1 4 5 .27 .08 Radiofrequency/Electromagnetic Heating 1 2 3 4 5 6 .05 .12 Railroad Tracks and Crossing 1 2 3 4 5 6 .19 .04 RCRA D Cap 1 2 3 4 5 6 .19 .05 RCRA D Cap 1 2 3 4 5 6 .08 .19 Real Time - Air/Gas Sample Analysis 1 2 3 4 5 6 .08 .23 Real Time - Gas Waste Sample Analysis 1 2 3 4 5 6 .08 .24 Real Time - Groundwater Sample Analysis 1 2 3 4 5 6 .08 .24 Real Time - Soil/Sediment Sample Analysis				4	3					
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4 5 6 .17 .11 Pumping/Draining/Collection 20 .03 Pumping/Draining/Collection 28 .07 Pyrolysis 28 .07 Pyrolysis 29 .02 Radioactive Specific Waste Containment 20 .02 Radioactive Specific Waste Containment 27 .08 Radiofrequency/Electromagnetic Heating 27 .08 Radiofrequency/Electromagnetic Heating 27 .08 Radiofrequency/Electromagnetic Heating 28 .07 Radiological Inventory Categorization for D&D 28 .05 .12 Railroad Tracks and Crossing 28 .05 .12 Railroad Tracks and Crossing 28 .05 .19 .04 RCRA C Cap RCRA D Cap RCRA D Cap RCRA Permit Preparation/Modification (see also X.02.03.05.01 and 02 03 06) 10 .03 .19 .05 RCRA Permit Preparation/Modification (see also X.02.03.05.01 and 02 03 06) 10 .08 .19 Real Time - Air/Gas Sample Analysis 10 .03 .19 .10	1	2		4	5	6				
4 5 .20 .03 Pumping/Draining/Collection .28 .07 Pyrolysis .20 .02 Radioactive Specific Waste Containment .20 .02 Radioactive Specific Waste Containment .20 .20 .02 Radioactive Specific Waste Containment .20 .20 .08 Radiofrequency/Electromagnetic Heating .20	1		J							1 0
4 5 .28 .07 Pyrolysis 4 5 .20 .02 Radioactive Specific Waste Containment 4 5 .27 .08 Radioactive Specific Waste Containment 4 5 .28 .29 Radioactive Specific Waste Containment 5 .28 .20 Radioactive Specific Waste Containment 6 .20 Radioactive Specific Waste Containment 7 .28 .29 Radioactive Specific Waste Containment 8 .28 .28 Radioactive Specific Waste Containment 8 .28 .28 Radioactive Specific Waste Containment 9 .28 .						0				
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1 2 3 4 5 6 .08 .20 Real Time - Groundwater Sample Analysis 1 2 3 4 5 6 .08 .24 Real Time - Liquid Waste Sample Analysis 1 2 3 4 5 6 .08 .22 Real Time - Soil/Sediment Sample Analysis	-									
1 2 3 4 5 6 .08 .24 Real Time - Liquid Waste Sample Analysis 1 2 3 4 5 6 .08 .22 Real Time - Soil/Sediment Sample Analysis	1									
1 2 3 4 5 6 .08 .22 Real Time - Soil/Sediment Sample Analysis	1									
	-									
1 1 2 3 4 5 6 1 08 25 Real Time - Solid Waste Sample Analysis	1	2	3	4	5	6		.08	.25	Real Time - Solid Waste Sample Analysis

A-8 04/02

			Phases				2nd	3rd	Environmental Management
Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	9
Assess.	Studies	Design	Cap. Const.	О&М	SLMT	Prog. Mgmt/ Infra.			ENVIRONMENTAL COST ELEMENT STRUCTURE
1	2	3	4	5	6		.08	.21	Real Time - Surface Water Sample Analysis
1	2	3	4	5	6		.02	.16	Realty Services
	2	3					.04	.17	Record of Decision
	2						.04	.09	Refinement of Alternatives
1	2	3	4	5	6		.02	.17	Regulatory Agency Oversight Staff
1	2	3	4	5	6		.02	.03	Regulatory Interaction
1	2	3	4	5	6		.05	.38	Relocation of Distribution Systems
			4	5	6		.12	.06	Remote Handled Storage
			4	5			.31	.17	Removal of All Other Facilities, or Entire Contaminated Facility
			4				.14	.11	Removal of Chemical Warfare Material (CWM)
			4	5			.31	.06	Removal of Fuel Handling Equipment
			4	5			.31	.15	Removal of Other Material and Equipment from Containment Structure
			4	5			.31	.13	Removal of Pool Linings
			4				.31	.20	Reprocessing Costs
			4	5	6		.05	.34	Restoration of Buildings after D&D
1	2	3	4	5	6		.05	.16	Retaining Wall
			4	5			.28	.09	Retort/Amalgamation
			4	5			.26	.29	Reverse Osmosis
1	2						.04	.04	Risk Assessment Documentation
	2					8	.03	.10	Risk Assessment Plan
			4	5			.22	.07	Rotating Biological Contactors
1	2	3	4	5	6		.03	.03	Sampling and Analysis Plan
1	2	3	4	5	6		.05	.33	Sanitary Sewer
	2						.04	.07	Screen Environmental Alternatives
			4	5	6		.17	.14	Sediment Capping
			4	5			.26	.31	Sedimentation
			4	5	6		.17	.08	Sediments Barriers
			4	5	6		.13	.14	Shallow Land Disposal
			4	5			.11	.02	Sheds & Other Supporting Facilities
			4				.18	.06	Sheet Piling
			4	5			.26	.32	Shredding
1	2	3	4	5	6		.05	.17	Sidewalks
			4	5			.26	.33	Sieving (Size Separation, Screening, Physical Separation)
			4				.14	.10	Sifting
			4	5	6		.13	.16	Silo Disposal Simple Environmental Treatment Facilities (e.g., Equipment Slabs,
			4	5			.11	.03	Utilities)
	2	3					.10	.10	Simulation/Modeling
1	2	3	4	5	6		.07	.03	Site Contaminant Surveys/Radiation Monitoring
			4	5			.31	.05	Site Reconfiguration, Isolating and Securing Structure
1	2	3					.07	.01	Site Reconnaissance
1	2	3	4	5	6		.07	.16	Site-Specific Geographical Information System (GIS)
			4	5			.27	.02	Six-Phase Heating and Extraction
			4	5			.25	.10	Skimming
			4	5			.26	.34	Skimming
			4	5			.30	.06	Sludge Stabilization (Aggregate / Rock / Slag)
			4	5			.22	.08	Slurry Phase Biological Treatment
			4	5	6		.18	.04	Slurry Walls
			4	5			.23	.05	Soil Flushing (Surfactant / Solvent)
			4	5			.25	.11	Soil Flushing (Surfactant / Solvent)
			4	5			.25	.17	Soil Vapor Extraction
			4	5			.26	.18	Soil Vapor Extraction

.9 04/02

Phi				Phases				2nd	3rd	Environmental Management
	Ph1	Ph2				Ph6	Ph8			
1	Assess.	Studies	Design			SLMT	Prog. Mgmt/ Infra.			
1										-
1										- '
1	1	2	3			6				
	1	2	3			6				
1				4						
1										
1										
1	1									*
1	1	2	3			6				*
1										
1	1			4	5	6				
	1	2	3							
						6				•
				4					.11	
				4				.27	.04	<u> </u>
1				4	5	6				• •
1				4	5	6		.12	.03	
1				4	5	6				
1	1	2	3	4	5	6		.05	.28	Storm Sewer
				4				.15	.03	Structure Removal
	1	2	3	4	5	6		.05	.19	Structures/Culverts
			3	4				.04	.21	Submittals
				4	5	6		.18	.03	Subsurface Drainage/Collection
1				4	5			.26	.38	Supercritical Extraction
				4	5			.28	.12	*
1				4				.14	.07	
1 2 3 4 5 6 .08 .03 Surface Water Sample Analysis 1 2 3 4 5 6 .07 .10 Surface Water Sample Analysis 2 4 5 6 .05 .39 Surfactant Enhanced Recovery 3 4 5 6 .05 .42 Switch Gear Building 4 5 6 .05 .42 Switch Gear Building 5 4 5 6 .34 .15 Synthetic Resin Adsorption 6 4 5 6 .34 .15 Synthetic Resin Adsorption 7 4 5 6 .34 .15 Synthetic Resin Adsorption 8 4 5 6 .13 .08 Tanks 9 3 4 5 6 .13 .08 Tanks 1 2 3 3 .03 .11 Technical Project Goals and Objectives				4				.14	.06	Surface Sweep (Magnetometer)
1 2 3 4 5 6 .07 .10 Surface Water Sampling 1 4 5 6 .26 .39 Surfactant Enhanced Recovery 1 4 5 6 .05 .42 Switch Gear Building 2 4 5 6 .34 .15 Synthetic Resin Adsorption 3 4 5 6 .34 .15 Synthetic Resin Adsorption 4 5 6 .34 .15 Synthetic Resin Adsorption 5 4 5 6 .13 .08 Tank 6 .4 5 6 .13 .08 Tanks 8 3 .04 .20 Task Requirement and Criteria 1 2 3 .10 .13 Technology Transfer 2 3 .10 .13 Technology Transfer 3 .10 .08 Test Special Tools/Equipment 4 5 6 <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td></td> <td>.14</td> <td>.05</td> <td>Surface Sweep (Visual)</td>				4				.14	.05	Surface Sweep (Visual)
	1	2	3	4	5	6		.08	.03	Surface Water Sample Analysis
	1	2	3	4	5	6		.07	.10	Surface Water Sampling
				4	5			.26	.39	Surfactant Enhanced Recovery
				4	5	6		.05	.42	Switch Gear Building
				4	5			.26	.40	Synthetic Resin Adsorption
1				4	5	6		.34	.15	
1 2 3 .04 .20 Task Requirement and Criteria 1 2 3 .03 .11 Technical Project Goals and Objectives 2 3 .10 .13 Technology Transfer 2 3 .10 .05 Terraces and Benches 2 3 .10 .08 Test Special Tools/Equipment 1 2 3 4 5 6 .05 .57 Thermal and Moisture Protection 1 4 5 .27 .01 Thermal Blanket (with Vacuum Extraction) 1 4 5 .34 .06 Thermal/Oxidation 1 2 3 4 5 .28 .13 Thermally Enhanced Vapor Extraction 1 2 3 4 5 .03 .08 Transportation and Disposal Plan (Waste Management Plan) 1 2 3 4 5 .32 .14 Transportation by barge				4				.15	.02	
1 2 3 .03 .11 Technical Project Goals and Objectives 2 3 .10 .13 Technology Transfer 2 3 .17 .05 Terraces and Benches 2 3 .10 .08 Test Special Tools/Equipment 1 2 3 4 5 6 .05 .57 Thermal and Moisture Protection 1 2 3 4 5 .27 .01 Thermal Blanket (with Vacuum Extraction) 1 4 5 .34 .06 Thermally Coxidation 1 2 3 4 5 .28 .13 Thermally Enhanced Vapor Extraction 1 2 3 4 5 .03 .08 Transportation and Disposal Plan (Waste Management Plan) 1 2 3 4 5 .32 .14 Transportation by air 1 2 3 4 5 .32 .13 Transportation by barge				4	5	6		.13	.08	Tanks
2 3 4 5 6 .17 .05 Terraces and Benches 2 3 .10 .08 Test Special Tools/Equipment 1 2 3 4 5 6 .05 .57 Thermal and Moisture Protection 1 2 3 4 5 .27 .01 Thermal Blanket (with Vacuum Extraction) 1 4 5 .34 .06 Thermal/Oxidation 1 2 3 4 5 .28 .13 Thermally Enhanced Vapor Extraction 1 2 3 4 5 .03 .08 Transportation and Disposal Plan (Waste Management Plan) 1 2 3 4 5 .32 .14 Transportation by air 1 2 3 4 5 .32 .13 Transportation by barge			3					.04	.20	Task Requirement and Criteria
1	1	2	3					.03	.11	3
2 3 .10 .08 Test Special Tools/Equipment 1 2 3 4 5 6 .05 .57 Thermal and Moisture Protection 1 4 5 .27 .01 Thermal Blanket (with Vacuum Extraction) 1 4 5 .34 .06 Thermal/Oxidation 1 2 3 4 5 .28 .13 Thermally Enhanced Vapor Extraction 1 2 3 4 5 6 .03 .08 Transportation and Disposal Plan (Waste Management Plan) 1 2 3 4 5 .32 .14 Transportation by air 1 2 3 4 5 .32 .13 Transportation by barge		2	3					.10	.13	
1 2 3 4 5 6 .05 .57 Thermal and Moisture Protection 1 2 3 4 5 .27 .01 Thermal Blanket (with Vacuum Extraction) 1 2 3 4 5 .34 .06 Thermal/Oxidation 1 2 3 4 5 6 .03 .08 Transportation and Disposal Plan (Waste Management Plan) 1 2 3 4 5 .32 .14 Transportation by air 1 2 3 4 5 .32 .13 Transportation by barge				4	5	6		.17	.05	Terraces and Benches
1		2	3					.10	.08	Test Special Tools/Equipment
1 4 5 .34 .06 Thermal/Oxidation 1 2 3 4 5 .28 .13 Thermally Enhanced Vapor Extraction 1 2 3 4 5 6 .03 .08 Transportation and Disposal Plan (Waste Management Plan) 1 2 3 4 5 .32 .14 Transportation by air 1 2 3 4 5 .32 .13 Transportation by barge	1	2	3	4	5	6		.05	.57	Thermal and Moisture Protection
1 2 3 4 5 6 .03 .08 Transportation and Disposal Plan (Waste Management Plan) 1 2 3 4 5 .32 .14 Transportation by air 1 2 3 4 5 .32 .13 Transportation by barge				4	5			.27	.01	Thermal Blanket (with Vacuum Extraction)
1 2 3 4 5 6 .03 .08 Transportation and Disposal Plan (Waste Management Plan) 1 2 3 4 5 .32 .14 Transportation by air 1 2 3 4 5 .32 .13 Transportation by barge				4	5			.34	.06	Thermal/Oxidation
1 2 3 4 5 .32 .14 Transportation by air 1 2 3 4 5 .32 .13 Transportation by barge				4	5			.28	.13	Thermally Enhanced Vapor Extraction
1 2 3 4 5 .32 .14 Transportation by air 1 2 3 4 5 .32 .13 Transportation by barge	1	2	3	4	5	6		.03	.08	Transportation and Disposal Plan (Waste Management Plan)
	1	2	3	4	5			.32	.14	
1 2 3 4 5 32 .12 Transportation by rail	1	2	3	4	5			.32	.13	Transportation by barge
	1	2	3	4	5			.32	.12	Transportation by rail

A-10 04/02

			Phases				2nd	3rd	Environmental Management
Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	*
Assess.	Studies	Design	Cap. Const.	О&М	SLMT	Prog. Mgmt/ Infra.			ENVIRONMENTAL COST ELEMENT STRUCTURE
1	2	3	4	5			.32	.11	Transportation by truck
1	2	3	4	5			.32	.02	Transportation Device/Equipment
1	2	3	4	5	6		.05	.25	Treatment Plants/Lift Stations
			4	5			.11	.04	Treatment Train Facility (e.g., Rain Covers, Foundation, Utilities)
			4	5			.22	.09	Trickling Filter
			4	5			.34	.03	Turnable Hybrid Plasma Reactor
			4	5			.26	.44	Ultrafiltration/Microfiltration
			4	5			.24	.14	Ultraviolet (UV) Oxidation
			4	5			.24	.13	Ultraviolet (UV) Photolysis
			4	5			.34	.07	Ultraviolet Oxidation
1	2	3	4	5	6		.05	.32	Underground Electrical Distribution
			4	5	6		.13	.07	Underground Mine/Shaft
			4	5	6		.13	.06	Underground Vault
			4	5	6		.19	.03	Upper Vegetative (Topsoil) Layer
			4	5			.25	.14	Vacuum Blasting
		3	4				.04	.14	Value Engineering/Special Studies
			4	5			.30	.07	Vitrification/Molten Glass
			4	5			.34	.08	VOC Recovery and Recycle
			4	5			.19	.02	Waste Containment, Portable (Furnish/Fill)
1	2	3	4	5	6		.03	.21	Waste Site Work Permits
			4	5	6		.12	.09	Waste Storage Fees and Taxes
1	2	3	4	5			.32	.01	Waste Stream Handling/Packaging
			4	5			.11	.12	Waste Treatment Fees and Taxes
1	2	3	4	5	6		.05	.26	Water Distribution
1	2	3	4	5	6		.05	.27	Water Storage Tanks
			4		6		.15	.06	Well Abandonment
1	2	3	4	5	6		.05	.56	Wood & Plastics
1	2	3	4	5	6		.03	.01	Workplan

A-11 04/02